The Internet That We Want(ed)?

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http://www.rogerclarke.com/II/RFF-15 {.html, .ppt}





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Things Wanted and Got

Consumer Marketers

- Channels to Consumers
- Market Reach •

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- Conversion of the Web . from Consumer-Pull to Server-Push
- (Pseudo-)Consents from • Consumers to enable prettymuch anything
- Freedom from Regulators •

Governments

- Cheaper Service Delivery
- Cost Transfer to Clients

Consumers

- Access
- Excitement

Organised Crime

Good-Enough Obfuscation

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Things <u>Not</u> Wanted But Got

Moral Minorities

• Content that upsets them

Copyright-Dependent Corps

 Content Usage that upsets them

Enforcers

- **Good-Enough Obfuscation**
- **Good-Enough** Nymity •

Organised Crime

- Breakable Obfuscation
- **Breakable Nymity** •

Things Not Wanted But Got **The User Perspective**

Service-Provider Abuse

- Data Exploitation •
- Behaviour Manipulation
- Lost Protections
- **Powerless Regulators** •

Criminal Abuse

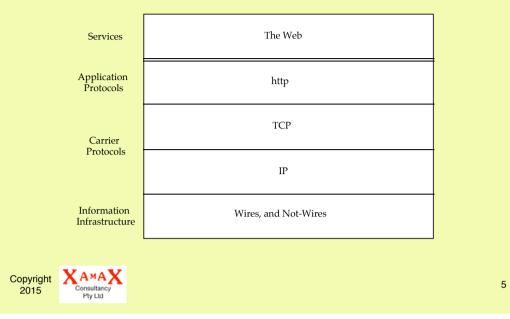
- **Device** Exploitation •
- Data Exploitation



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How the World Sees the Internet



'Look What They've Done to My Web Ma!'

Services J	Web 2.0 avascript, cookie		Other People Services	Services for Things (IOT)		
Protocols	Java, web-bugs, SLT, Flash cooki http extended, ive-By Downloa	es, Other Protocols	Other Protocols	Other Protocols		
Carrier Protocols	HTML5, T	СР	UI	90		
110100015	IP					
Information Infrastructure		Wires, and	Not-Wires			

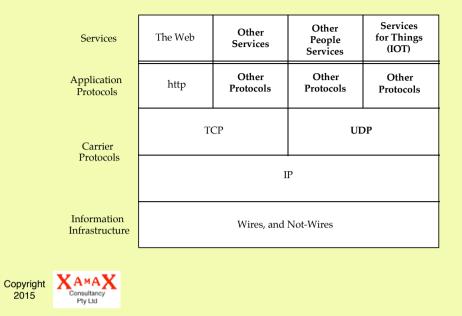
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The Internet Somewhat More Realistically



'Look What They've Done to My Security Ma!'

- 'Privacy by Design' (PbD) ????
- Insecurity by Design (IbD)
- Consumer Devices are designed to be open to exploitation, for the benefit of marketers
- Then came BYOD
- So Consumer Device Insecurity is invited by organisations inside their firewalls



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Users Things <u>Not</u> Wanted But Got

Service-Provider Abuse

- Data Exploitation
- Behaviour Manipulation
- Lost Protections

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Powerless Regulators

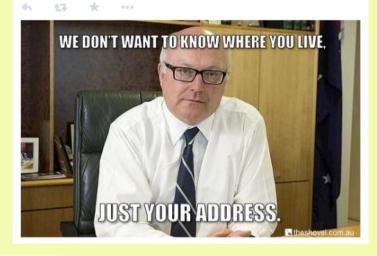


- Device Exploitation
- Data Exploitation

Government Abuse

 Ubiquitous e-Surveillance

George Brandis explains metadata #auspol





https://twitter.com/the_shovel_/status/497519722984792064 10





The IAB urges protocol designers to design for confidential operation by default. We strongly encourage developers to include encryption in their implementations, and to make them encrypted by default. We similarly encourage network and service operators to deploy encryption where it is not yet deployed, and we urge firewall policy administrators to permit encrypted traffic.



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https://www.iab.org/2014/11/14/ iab-statement-on-internet-confidentiality/

Mobile							
H Android				N th	e official SECUREDROP d	lirectory	
iOS						inoccory	
Computer	PRISM I BREAK	Protocols	About	SecureDrop is an oper	n-source whistleblower submission system that med	lia organizations	
BSD Opt out of global data surveillance programs like PRISM, SNU/Linux XKeyscore and Tempora.				can install to securely accept documents from anonymous sources. It was originally coded by the late Aaron Swartz and is now managed by Freedom of the Press Foundation. For more information, you can go here.			
Image: OS X Help make mass surveillance of entire populations uneconomical! We all have a right to privacy, which you can exercise today by encrypting your			l have a		theguardian		
H Windows	communications and ending	your reliance on proprietary services.					
Network					SECUREDROP		
Routers					A way of sharing stories with us		
Servers					Securely & Confidentially		
Copyright 2015 KAMAX Consultancy Pty Ltd https://prism-break.org/en/ 13			13 Cor 2	Copyright 2015 XAMAX Consultancy Ply Ltd https://freedom.press/securedrop 14 https://securedrop.theguardian.com/			
blackphone Introducing 1.1 In the Age of BYOD, privacy is essee infrastructure. PrivatOS 1.1 puts priv enterprise, without any sacrifice to ye	ntial to protecting your business acy in the hands of you and your	Silent Phone Silent Phone Makes private calls and video conferences more secure with an encry peer-to-peer VoIP service that operate worldwide with HD clarity over 30 or WIFi networks.	-pted	Power to The People cryption Makes the World Better			
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Introducing 1.1 In the Age of BYOD, privacy is essee infrastructure. PrivatOS 1.1 puts priv enterprise, without any sacrifice to y	PrivatOS Initial to protecting your business acy in the hands of you and your our productivity. Silent Text which destroys selected messages. Silent V which destroys selected messages.	Makes private calls and video conferences more secure with an encry peer-to-peer VoIP service that operate worldwide with HD clarity over a or WIFI networks. Silent Contacts Safeguard your contacts and leads by only providing you with a contact easily imports your address book with automatic enc password protection. Voorld with enhanced security and flexibility make or receive calls between Silent	/pted (G, 4G	ECCAPE THE INTERNET*	ter Io rest for the Wickr: Surnbull's alternative to nsecure' SMS hough he's leading the charge for data retention, Malcolm mbull has argued that SMS is "insecure" and he prefers pr-the-top messaging services services that won't be a part		

Responses to Insecurity

Message Obfuscation

- EFF's 'HTTPS Everywhere'
- IAB/IETF Encryption as Default
- BlackPhone / PrivatOS / SilentSpace
- Wickr IM

Identity Obfuscation

- PRISM-Break.org
- SecureDrop, GlobaLeaks

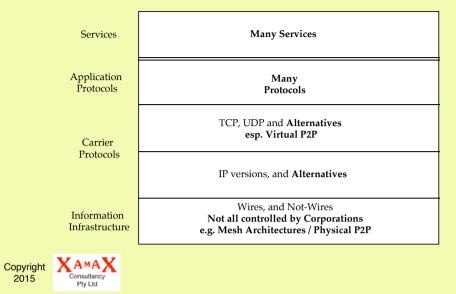
Traffic and Social Network Obfuscation

• Tor



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Future Internetworking After The-Internet-As-We-Knew-It



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